

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---------------------|--|------------------|---------|------------------|
| S1 | 2 | ("20050243707").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/29 14:06 |
| S2 | 2 | ("6298029").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/20 13:52 |
| S3 | 3 | ("2002015914").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/20 17:57 |
| S4 | 2 | ("0015914").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/20 13:53 |
| S5 | 2 | ("5311500").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/20 13:54 |
| S6 | 372 | fukui adj2 yukio | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/20 18:00 |
| S7 | 3 | ("2002015373").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/20 18:01 |

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| S8 | 2 | ("20020015373").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/20 18:30 |
| S9 | 2 | ("6069853").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/28 15:24 |
| S10 | 63 | (369/13.13).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/28 15:10 |
| S11 | 125 | (369/13.33).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/28 13:44 |
| S12 | 171 | (369/13.17).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/28 13:44 |
| S13 | 20 | (369/13.18).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/28 13:44 |
| S14 | 18 | (369/13.19).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/28 13:44 |

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|-----|------|-------------------------------------|--|----|----|------------------|
| S15 | 7521 | hydrophobic adj2 layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:06 |
| S16 | 0 | S10 and S15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:06 |
| S17 | 0 | S11 and S15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:06 |
| S18 | 0 | S12 and S15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:06 |
| S19 | 0 | S13 and S15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:07 |
| S20 | 0 | S14 and S15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:07 |
| S21 | 301 | ((free adj2 work\$3) adj2 distance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:08 |

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| S22 | 0 | S10 and S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:08 |
| S23 | 0 | S11 and S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:08 |
| S24 | 1 | S12 and S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:09 |
| S25 | 0 | S13 and S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:09 |
| S26 | 0 | S14 and S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:09 |
| S27 | 3 | S15 and S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:09 |
| S28 | 8744 | ((focus\$3 near6 radiat\$3) near6 beam) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:25 |

EAST Search History (Prior Art)

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| S29 | 115196 | objective same lens | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:25 |
| S30 | 42559 | optical adj2 head | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:26 |
| S31 | 426 | hydrophylic same layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:26 |
| S32 | 1595 | S28 and S29 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:27 |
| S33 | 279 | S30 and S32 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:27 |
| S34 | 1 | S31 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:27 |
| S35 | 4 | S11 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:40 |

EAST Search History (Prior Art)

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| S36 | 3 | S10 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:30 |
| S37 | 1 | S12 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:30 |
| S38 | 1 | S13 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:31 |
| S39 | 0 | S14 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:31 |
| S40 | 54434 | ((refractive adj2 index) same thickness) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:40 |
| S41 | 2 | S35 and S40 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/28 15:40 |
| S42 | 3348 | ((magnetic adj2 coil) same diameter) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 14:07 |

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| S43 | 1245 | S42 and @ad< "20020710" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 14:08 |
| S44 | 42580 | optical adj2 head | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 14:09 |
| S45 | 34 | S43 and S44 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 14:09 |
| S46 | 109247 | objective with lens | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 14:09 |
| S47 | 21 | S45 and S46 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 14:09 |
| S48 | 20762 | (wave\$length same(refractive adj2 index))same(thick\$4 width) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/29 16:18 |
| S49 | 941154 | (contamin\$5 water\$4 evaporat\$3 absor\$5 hydro\$3 liquid\$5 moist\$6 wet\$4 saturat\$3) near9 layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:24 |

EAST Search History (Prior Art)

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| S50 | 84336 | (disc disk) near9 layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:25 |
| S51 | 17333 | S49 and S50 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:25 |
| S52 | 590068 | optical same (read\$3 record\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:27 |
| S53 | 7062 | S51 and S52 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:28 |
| S54 | 3471975 | (laser beam radiat\$3 focus\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:28 |
| S55 | 6232 | S53 and S54 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:29 |
| S56 | 1191015 | substrate same (stack\$1 layer\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:30 |

EAST Search History (Prior Art)

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| S57 | 5359 | S55 and S56 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:31 |
| S58 | 9014 | (optical near3 head) same objective | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:31 |
| S59 | 451 | S57 and S58 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/07/25 13:32 |
| S60 | 114317 | (moist\$4 hydro\$4) near5 layer\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:49 |
| S61 | 428310 | (disc disk optical record\$4) same substrate\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:51 |
| S62 | 11611 | S60 and S61 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:51 |
| S63 | 53099 | (radiat\$3 beam light) and (optical near5 head) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:53 |

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| S64 | 262 | S62 and S63 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:53 |
| S65 | 224 | 369/13.01 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:53 |
| S66 | 2 | S64 and S65 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:53 |
| S67 | 224 | 369/300 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:54 |
| S68 | 1 | S64 and S67 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/05 10:54 |
| S69 | 881201 | (contamin\$5 water\$4 evaporat\$3 absor\$5 hydro\$3 liquid\$5 moist\$6 wet\$4 saturat\$3) near6 layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:20 |
| S70 | 381908 | (disc disk record\$4 stor\$4) near9 layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:22 |

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| S71 | 92015 | S69 and S70 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:22 |
| S72 | 68 | (369/13.13).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/05 17:24 |
| S73 | 15 | S71 and S72 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:24 |
| S74 | 142 | (369/13.33).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/05 17:24 |
| S75 | 30 | S71 and S74 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:24 |
| S76 | 181 | (369/13.17).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/05 17:24 |
| S77 | 19 | S71 and S76 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:24 |

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| S78 | 20 | (369/13.18).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/05 17:25 |
| S79 | 1 | S71 and S78 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:25 |
| S80 | 18 | (369/13.19).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/05 17:28 |
| S81 | 0 | S71 and S80 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/05 17:28 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|----------------|------------------|---------|------------------|
| L2 | 17 | ((radiat\$4 laser beam) and optical and head and record\$4 and (hydro\$6 moist\$4)).clm. | USPAT; UPAD | OR | ON | 2010/01/13 15:40 |
| L3 | 1 | ((radiat\$4 laser beam) and optical and head and record\$4 and (hydro\$6 moist\$4) and stack).clm. | USPAT; UPAD | OR | ON | 2010/01/13 15:41 |
| L4 | 2 | ((radiat\$4 laser beam) and optical and record\$4 and (hydro\$6 moist\$4) and stack).clm. | USPAT; UPAD | OR | ON | 2010/01/13 15:41 |
| L5 | 440 | ((radiat\$4 laser beam) and optical and record\$4 and (hydro\$6 moist\$4)).clm. | USPAT; UPAD | OR | ON | 2010/01/13 15:42 |
| L6 | 342 | ((radiat\$4 laser beam) and optical and record\$4 and (hydro\$6 moist\$4) and layer).clm. | USPAT; UPAD | OR | ON | 2010/01/13 15:42 |
| L7 | 0 | (369/13.01).CCLS. | UPAD | OR | OFF | 2010/01/13 15:42 |

EAST Search History (Interference)

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|----|----|--|----------------|----|----|------------------|
| L8 | 17 | ((radiat\$4 laser beam) and optical and head and record\$4 and (hydro\$6 moist\$4) and layer).clm. | USPAT; UPAD | OR | ON | 2010/01/13 15:43 |
|----|----|--|----------------|----|----|------------------|